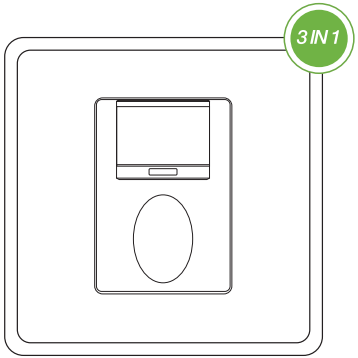
User's Manual

OCCUPANCY SENSOR SWITCH

(Occupancy / Vacancy / On-off 3 In 1)

▷ **Item No:**
RZ022-5A / RZ022-10A



Please Read All Instructions Before Proceeding and Retain For Future Use.

Since the Occupancy sensor switch is sensitive to temperature changes,they tend to set off false alarms. Choosing the right place for installation you can avoid any problem. Strictly follow the wiring diagram when you install the switch.

DESCRIPTION

The RZ022 series occupancy sensor switch can automatically turn lights or fan on and off by detect heat emitted by the motion, it's designed to replace a standard light or fan switch.The products use advanced passive infrared sensor(PIR) and MCU control technology which offers better stability than the traditional motion sensor, it's easy and accurate to adjust the Time Delay, Detection Range, Light sensor value and operating mode (Occupancy / Vacancy / On-Off)

SPECIFICATION

Power Source: 100V~265VAC Detection Range:≤150°
Power Frequency: 50/60Hz Detection Distance: 6-9m (<27℃)
Light sensor : Default 25Lux (±10Lux),15Lux, 35Lux optional.

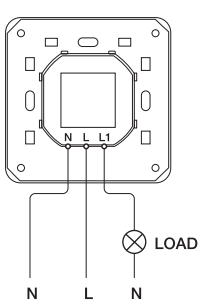
[Switch's light sensor is sensitive to (infrared) thermal light source like sunlight , nature light,incandescent lamp; it's not sensitive to cold light source like LED light,fluorescent light]

Time-Delay: Default 1min (15secs,1min,3mins,5mins,15mins,30mins adjustable)
Working Humidity: < 93%RH Installation Height: 1.2m~1.6m
Motion Detection Speed: 0.6~1.5m/s
Working Temperature: -20~+40 ℃

RZ022-5A:
Incandescent / Halogen: 1100W / 220VAC
Fluorescent/Ballast/LED: 500W / 220VAC

RZ022-10A:
Incandescent/Halogen: 2200W / 220VAC
Fluorescent/Ballast/LED: 1000W / 220VAC

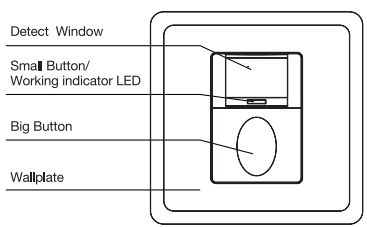
WIRING DIRECTIONS



RZ022-5A / RZ022-10A

ADJUSTMENT

1. After connecting the switch, the Green working indicator LED will turn on. The switch default time-delay is 1min, ambient light sensor value: 25Lux, the switch is in ***Occupancy sensor mode***,when sensor detects motion, the green indicator will flash.
2. Short press the big button, can turn on/off the load temporarily, when the time delay expires, the sensor will turn to the last operating mode.
3. Short press the small button, can turn on/off the load. The switch will enter into ***ON/OFF mode*** , at this mode, the switch works as a normal on/off switch and won't turn load on/off by motion detection. When motion detected,***the red indicator LED will flash*** to indicate that the switch is in ***ON/OFF mode***,until user press the big button to escape the ***ON/OFF mode*** .
4. Press the big button and hold for more than 4 seconds can change the time-delay, the red indicator will flash:
   - Flash 1 time --- 15seconds
   - Flash 2 times --- 1min
   - Flash 3 times --- 3mins
   - Flash 4 times --- 5mins
   - Flash 5 times --- 15mins
   - Flash 6 times --- 30mins

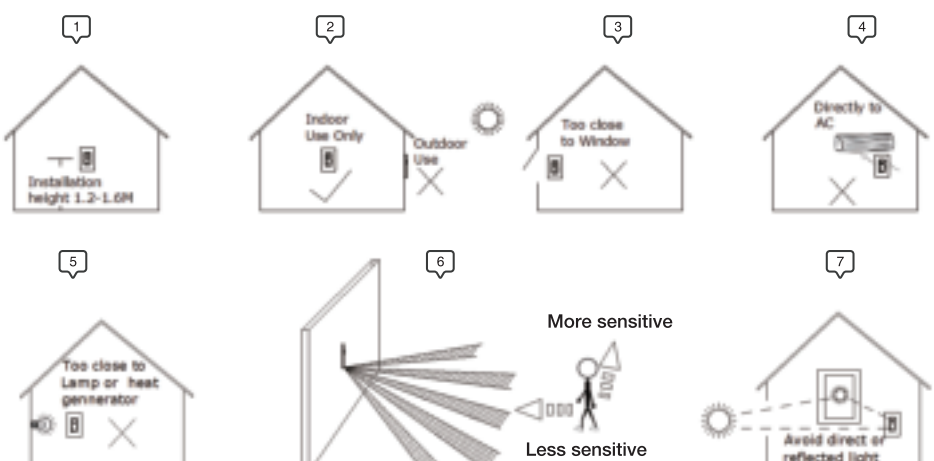


5. Press and hold the small button for more than 4 seconds can change the mode: the red indicator will flash:
   - Flash 1 time --- Vacancy mode
   - Flash 2 times --- Occupancy mode
   - Flash 3 times --- Occupancy mode without light sensor mode
6. Press the big button and small button at the same time, can change the sensitivity, light sensor value, and restore to factory settings, the red and green indicator will flash at the same time.
   - Flash for 1 time --- Low sensitivity
   - Flash for 2 times --- High sensitivity
   - Flash for 3 times --- Light sensor value 15Lux
   - Flash for 4 times --- Light sensor value 25Lux
   - Flash for 5 times --- Light sensor value 35Lux
   - Flash for 6 times --- Restore to factory settings

WORKING MODES

Occupancy mode	Auto ON-Auto OFF (after time delay) Manual ON -Manual OFF (after time delay)	When motion is detected and the ambient light value is lower than set value, the load will automatically turn on, then automatically turn off when the selected time delay has expired. Press the big button can manually turn ON/OFF the load and time delay will also take effect.
Vacancy mode	Manual ON and Auto OFF (after time delay) Manual ON - Manual OFF (after time delay) Auto ON within 30 seconds after delay time, After 30 seconds will only be turned on by big button	The load will turn on ONLY when the big button is used, and automatically turn off when the selected time delay has expired. The big button can manually turn ON/OFF the load, and time delay will also take effect. If the time delay has expired, the load will turn off; the load will turn on again automatically if motion is detected within 30 seconds after time delay; After 30 seconds, the load will ONLY be turned on by pressing the big button.
Occupancy mode without light sensor	Auto ON and Auto OFF day and night Manual ON -Manual OFF (after time delay)	The load will automatically turn on when motion is detected all over the day even at day time, and automatically turn off when the time delay has expired. The big button can manually turn ON/OFF the load, and time delay will also take effect.
ON/OFF mode	Manual ON and Manual OFF (Press big button to escape)	Short press the small button, the load will be turned on/off, and the sensor will enter into ***ON/OFF mode*** , at this mode, when sensor detects motion,the ***red indicator LED will flash*** to indicate that the switch is in ***ON/OFF mode,*** the load will not turn on/off, until user press the big button to escape the ***ON/OFF mode*** .

CHOOSE THE RIGHT PLACE FOR INSTALLATION



TROUBLE SHOOTING GUIDE

Problem	Cause	Solution
Lights won't turn on	Wired incorrectly	Check if green indicator flashes or not, if yes, check the load wiring,or the load function; if not, check if the wiring is the same with the diagram
	Bulbs blown	Check if the bulb still functions or replace
	Sensor in ***ON/OFF mode***	Check if the red LED indicator will flash when motion detected, press big button to escape
	Ambient Light too bright than setting value on switch	Draw the curtain to make the room darker, wave hand, Check if the light turns on, if turns on, adjust light sensor value to 35Lux, or turn the switch to Occupancy mode without light sensor mode
	The load do not suitable for the sensor	Change lighting or load to halogen, incandescent, and LED lighting
Lights stay on	Time set too long	Adjust the time delay to 15 seconds and check if the light will turn off
	Wired incorrectly	Check if wiring is the same with the diagram
	Sensor in ***ON/OFF mode***	Check if the red LED indicator will flash when motion detected, press big button to escape
	Frequent changes in heat are being detected	Aim sensor away from heat sources, heat vent, air condition, pet
Lights keep turning on and off (cycling)	The load is less than 3W	Change the load at least 3W or higher
	Changes in heat are being detected from a fixed heat source	Check the sensing area for heat source, reposition the sensor
	Changes in heat are being detected from a moving object	Check the sensing area for moving heat source: vehicles, pedestrians, animals, moving trees and alter the aim of the sensor
	Light and heat is being reflected back onto the sensor	Alter aim of the sensor or paint the reflecting surface with a dull finish

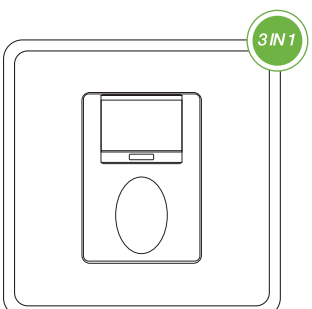
TIP if you don't know exactly what the reason caused the trouble, and how to solve it you can try to restore the factory setting by pressing the big and small button at the same time until the red and green indicator flash for 6 times.

User's Manual

OCCUPANCY SENSOR SWITCH

(Occupancy / Vacancy / On-off 3 In 1)

▷ Item No: RZ022-5A-S | Single-Pole version, no neutral or ground wire required



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DESCRIPTION

The RZ022-5A-S Occupancy sensor switch is a Single-Pole switch that does not require a Neutral wire or Ground wire. It uses advanced passive infrared sensors(PIR) and MCU control technology to detect motion, automatically turning lights on and off.

The switch offers easy and accurate adjustment of the Time Delay , Detection Range, Light Sensor value, and Operating Mode (Occupancy/ Vacancy / On-Off),making it simple to customize for any setting. With improved stability compared to traditional motion sensors , the RZ022-5A-S provides a reliable, energy-efficient, and cost-effective lighting solution for homes, offices, and commercial spaces.

SPECIFICATION

Power Source: 100V~265VAC Detection Range:≤150°
Power Frequency: 50/60Hz Detection Distance: 6-9m (<27℃)
Light sensor : Default 25Lux (±10Lux),15Lux, 35Lux optional.

[Switch's light sensor is sensitive to (infrared) thermal light source like sunlight , nature light,incandescent lamp; it's not sensitive to cold light source like LED light,fluorescent light]

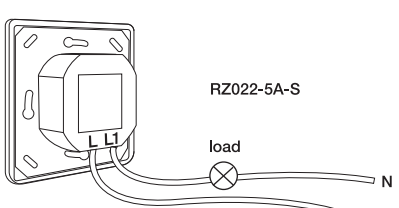
Time-Delay: Default 1min (15secs,1min,3mins,5mins,15mins,30mins adjustable)
Working Humidity: < 93%RH Installation Height: 1.2m~1.6m
Motion Detection Speed: 0.6~1.5m/s
Working Temperature: -20~+40 ℃

RZ022-5A-S:
Incandescent / Halogen: 1100W / 220VAC Min.3W
LED lighting: 300W / 220VAC Min.3W

WIRING DIRECTIONS

Please make sure that the light is ***at least 3W or higher***, otherwise it will flash. This sensor is only ***compatible with incandescent, halogen, and LED lighting.***

We ***do not recommend using it for Fluorescent ,Ballast or Fans*** or other types of loads. If you need to use it for other loads, please contact us for assistance.



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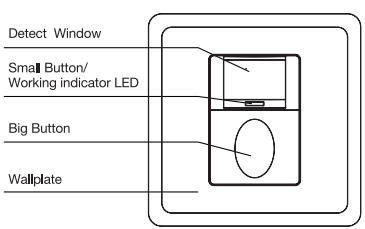

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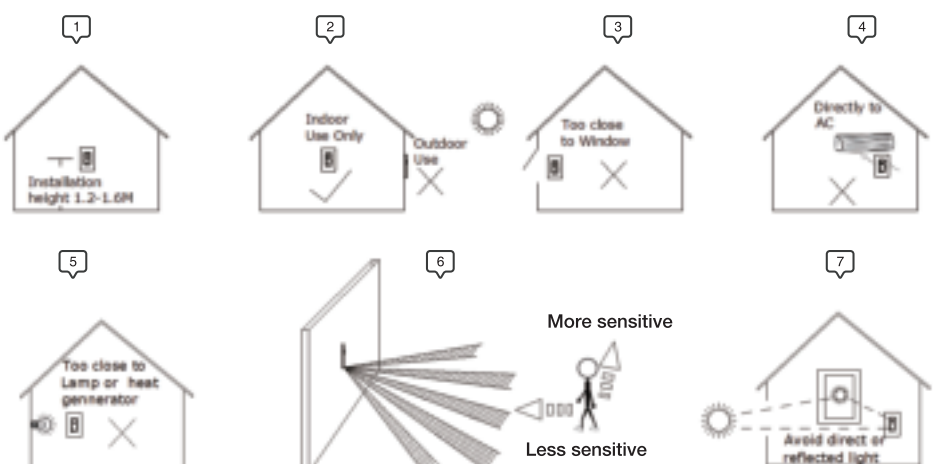

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